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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



Applicant(s): Joel D. OXMAN et al. Group Art Unit: 1614  
 Serial No.: 10/626,261 Examiner: Unassigned  
 Confirmation No.: 9585 Docket No.: 56464US003  
 Filed: July 24, 2003  
 Title: HARDENABLE THERMALLY RESPONSIVE COMPOSITIONS

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

An itemized return postcard.  
 A Petition for Extension of Time for \_\_\_ month(s) and a check in the amount of \$\_\_\_ for the required fee.

An Information Disclosure Statement (2 pgs); copies of \_\_\_ applications; 1449 forms (4 pgs); and copies of 24 documents cited on the 1449 forms.

A check in the amount of \$\_\_\_, for \_\_\_.

A certified copy of a \_\_\_ application, Serial No. \_\_\_, filed \_\_\_\_\_, the right of priority of which is claimed under 35 U.S.C. §119.

Other: copy of the International Search Report (5 pgs).

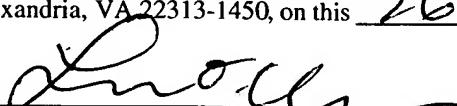
Amendment \_\_\_ No Additional fee is required. \_\_\_ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$18 =	
Independent Claims				x \$86 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$290 Here →					
Total Additional Claim Fees Required					

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

**CERTIFICATE UNDER 37 C.F.R. §1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26 day of July, 2004.

MUETING, RAASCH & GEBHARDT, P.A.

By:   
 Loren D. Albin  
 Reg. No.: 37,763  
 Direct Dial: 612-305-1225  
 Facsimile: 612-305-1228

(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)

**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 56464US003	Serial No.: 10/626,261
Applicant(s): OXMAN et al.	Confirmation No.: 9585
Application Filing Date: 24 July 2003	Group: 1614
Information Disclosure Statement mailed:	(JULY 26, 2004)

JUL 28 2004

**U.S. PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		3,786,116	01/15/74	Milkovich et al.			
		3,842,059	10/15/74	Milkovich et al.			
		4,071,424	01/31/78	Dart et al.			
		4,693,935	09/15/87	Mazurek			
		4,871,786	10/03/89	Aasen et al.			
		5,130,347	07/14/92	Mitra			
		5,154,762	10/13/92	Mitra et al.			
		5,252,318	10/12/93	Joshi et al.			
		5,410,016	04/25/95	Hubbell et al.			
		5,429,826	07/04/95	Nair et al.			
		5,468,477	11/21/95	Kumar et al.			
		5,501,727	03/26/96	Wang et al.			
		5,545,676	08/13/96	Palazzotto et al.			
		5,468,477	11/21/95	Kumar et al.			
		5,580,929	12/03/96	Tanaka et al.			
		5,607,663	03/04/97	Rozzi et al.			
		5,612,052	03/18/97	Shalaby			
		5,662,887	09/02/97	Rozzi et al.			
		5,725,882	03/10/98	Kumar et al.			
		5,866,630	02/02/99	Mitra et al.			
		5,876,208	03/02/99	Mitra et al.			
		5,888,491	03/30/99	Mitra et al			
		5,942,209	08/24/99	Leavitt et al.			
		5,976,648	11/02/99	Li et al.			

**EXAMINER****Date Considered**

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION  
DISCLOSURE  
STATEMENT**

<b>Atty. Docket No.:</b> 56464US003	<b>Serial No.:</b> 10/626,261
<b>Applicant(s):</b> OXMAN et al.	<b>Confirmation No.:</b> 9585
<b>Application Filing Date:</b> 24 July 2003	<b>Group:</b> 1614
<b>Information Disclosure Statement mailed:</b> <i>July 26, 2004</i>	

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		6,018,033	01/25/00	Chen et al.			
		6,030,634	02/29/00	Wu et al.			
		6,060,582	05/09/00	Hubbell et al.			
		6,121,341	09/19/00	Sawhney et al.			
		6,123,667	09/26/00	Poff et al.			
		6,136,885	10/24/00	Rusin et al.			
		6,162,241	12/19/00	Coury et al.			
		6,177,095 B1	01/23/01	Sawhney et al.			
		6,201,065 B1	03/13/01	Pathak et al.			
		6,217,894 B1	04/17/01	Sawhney et al.			
		6,312,666 B1	11/06/01	Oxman et al.			
		6,312,667 B1	11/06/01	Trom et al.			
		6,312,668 B2	11/06/01	Mitra et al.			
		6,316,011 B1	11/13/01	Ron et al.			
		6,387,977 B1	05/14/02	Sawhney et al.			
		6,410,645 B1	06/25/02	Pathak et al.			
		6,419,906 B1	07/16/02	Xu et al.			
		6,497,729 B1	12/24/02	Moussy et al.			
		2003/0087986 A1	05/08/03	Mitra			
		2003/0166740 A1	09/04/03	Mitra et al.			
		2003/0195273 A1	10/16/03	Mitra et al.			
		2004/0120901 A1	06/24/04	Wu et al.			
		2004/0122126 A1	06/24/04	Wu et al.			

<b>EXAMINER</b>	<b>Date Considered</b>
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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 56464US003	Serial No.: 10/626,261
	Applicant(s): OXMAN et al.	Confirmation No.: 9585
	Application Filing Date: 24 July 2003	Group: 1614
	Information Disclosure Statement mailed:	July 26, 2004

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	X	EP 0 173 567 A2	03/05/86	EPO				
	X	EP 1 004 293 A2, A3	05/31/00	EPO				
	X	EP 1 266 570 A1	12/18/02	EPO				
	X	GB 2 229 443 A	09/26/90	Great Britain				
	X	JP 3 101 714	10/23/00	Japan (English Language Abstract Only)				
	X	JP 2000319304	11/21/00	Japan (English Language Abstract Only)				
	X	WO 93/17669 A1	09/16/93	WIPO				
	X	WO 93/23009 A1	11/25/93	WIPO				
	X	WO 95/24430 A2, A3	09/14/95	WIPO				
	X	WO 99/32152 A2, A3	07/01/99	WIPO				
	X	WO 00/00222 A1	01/06/00	WIPO				
	X	WO 00/28946 A1	05/25/00	WIPO				
	X	WO 00/44800 A1	08/03/00	WIPO				
	X	WO 01/17574 A1	03/15/01	WIPO				
	X	WO 01/30873 A1	05/03/01	WIPO				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
	X	Hoffman et al., "Thermally Reversible Hydrogels: II. Delivery and Selective Removal of Substances From Aqueous Solutions," <i>Journal of Controlled Release</i> , 4, Elsevier Science Publishers, Amsterdam, pp. 213-222 (1986).

EXAMINER	Date Considered

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PATENT  
Docket No. 56464US003

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Serial No.: 10/626,261 ) Examiner: Unassigned  
Confirmation No.: 9585 )  
Filed: July 24, 2003 )  
For: HARDENABLE THERMALLY RESPONSIVE COMPOSITIONS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. **As this patent application was filed after June 30, 2003, copies of the U.S. patents and U.S. patent application publications listed on the attached 1449 forms have not been submitted.** Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants wish to bring the Examiner's attention to the International Search Report (ISR, copy enclosed herewith). The documents cited in the ISR are listed on the attached 1449 form.

Applicants also wish to bring the Examiner's attention to the following pending U.S. Applications, as well as any documents and any provisional U.S. patent applications referenced therein. A copy of each of the below-listed pending U.S. Patent Applications is provided herewith.

**Information Disclosure Statement**

Applicant(s): Joel D. OXMAN et al.

Serial No.: 10/626,261

Confirmation No.: 9585

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For: **HARDENABLE THERMALLY RESPONSIVE COMPOSITIONS**

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**List of Pending Non-Published U.S. Patent Applications**

Applicant(s)	Application Number	Filing Date	Serial No. of Provisional Application to which listed Application claims priority
Ali et al.	10/626,341	07/24/03	60/444,200
Mitra et al.	10/626,142	07/24/03	60/444,039

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26 day of July, 2004.

Signature: Loren D. Albin  
Name: Loren D. Albin

Date

July 26, 2004

Respectfully submitted for

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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 56464US003	Serial No.: 10/626,261
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	Information Disclosure Statement mailed: <i>July 26, 2004</i>	

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
	X	Kawakami et al., "Silicone Macromers for Graft Polymer Synthesis," <i>Polymer Journal</i> , Vol. 14, No. 11, pp. 913-917 (1982).
	X	Kawakami et al., "Synthesis and Copolymerization of Polysilxoane Macromers," <i>ACS Polymer Preprints</i> 25(1), pp. 245-246 (1984).
	X	Kawakami et al., "Synthesis of silicone graft polymers and a study of their surface active properties," <i>Makromol. Chem.</i> , 185, pp. 9-18 (1984).
	X	Lee et al., "pH-Thermoreversible Hydrogels. I. Synthesis and Swelling Behaviors of the (N-isopropylacrylamide-co-acrylamide-co-2-hydroxyethyl methacrylate) Copolymeric Hydrogels," <i>Journal of Applied Polymer Science</i> , Vol. 71, John Wiley and Sons, Inc., pp. 221-231 (1999).
	X	Lee et al., "Thermoreversible Hydrogels. XII. Effect of the Polymerization Conditions on the Swelling Behavior of the N-Isopropylacrylamide," <i>Journal of Applied Polymer Science</i> , Vol. 78, John Wiley and Sons, Inc., pp. 1604-1611 (2000).
	X	Lee et al., "Thermoreversible Hydrogels. XIV. Synthesis and Swelling Behavior of the (N-isopropylacrylamide-co-2-Hydroxyethyl methacrylate) Copolymeric Hydrogels," <i>Journal of Applied Polymer Science</i> , Vol. 77, John Wiley and Sons, Inc., pp. 1769-1781 (2000).
	X	Nathoo et al., "Comparative 3-Week Clinical Tooth-Shade Evaluation of a Novel Liquid Whitening Gel Containing 18% Carbamide Peroxide and a Commercially Available Whitening Dentrifrice," <i>A Supplement to Compendium of Continuing Education in Dentistry</i> , Vol. 23, No. 11 (Suppl. 1), Title page, letter from the editor, and pp. 12-17 (8 pp. total) (November 2002).
	X	Senel et al., "Thermoresponsive Isopropylacrylamide-Vinylpyrrolidone Copolymer by Radiation Polymerization," <i>Journal of Applied Polymer Science</i> , Vol. 64, John Wiley and Sons, Inc., pp. 1775-1784 (1997).

<b>EXAMINER</b>	<b>Date Considered</b>
<small>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	